

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-20. (Canceled).

21. (Currently Amended) An apparatus, comprising:

A wireless access point having a radio comprising two or more physical layer blocks; and

a configuration processor to arrange the two or more physical layer blocks to communicate according to one of at least two or more radio communication protocols or standards, the configuration processor to determine the availability of the two or more physical layer blocks prior to the arrangement of a particular physical block to a desired communication protocol, and when there is not an available physical layer block, reprogramming an idle one of the two or more physical layer blocks or one of the two or more physical layer blocks that is used less frequently than another of the two or more physical layer blocks to operate according to the desired communication protocol or standard; and

a beacon transceiver to transmit a beacon to a remote device and to receive a reply from the remote device, wherein a beacon transmitted by said beacon transceiver provides an indication of the one or more available radio communication protocols and a received reply from the remote device provides an indication of a desired radio communication protocol.

22. (Previously Presented) An apparatus as claimed in claim 21, said two or more physical layer blocks including software defined radio logic block being programmable

to cause the two or more physical layer blocks to be reprogrammed to communicate according to at least one or more radio communication protocols.

23. (Previously Presented) An apparatus as claimed in claim 21, further comprising a memory having a database stored thereon, the database including information to configure the two or more physical layer blocks to communicate according to one of the at least two or more radio communication protocols.

24. (Previously Presented) An apparatus as claimed in claim 21, further comprising a hub, and said radio including at least one or more media access control blocks to couple to a network through said hub.

25. (Canceled)

26. (Currently Amended) A method, comprising:
transmitting a beacon from a wireless access point to a remote device, the beacon indicating one or more available radio communication protocols;
receiving from a the remote device a reply to a the transmitted beacon at the wireless access point, the reply indicating a desired radio communication protocol;
determining whether the desired radio communication protocol is supported by the wireless access point; and
in the event the desired radio communication protocol is supported, determining whether there is an available physical layer block, and when there is an available physical layer block, programming the physical layer block to communicate according to the desired radio communication protocol, and when a physical layer block is not available, reprogramming an ~~an~~ idle physical layer block or one of two or more physical layer

blocks that is used less frequently than another of the two or more physical layer blocks to operate according to the desired radio communication protocol.

27. (Previously Presented) A method as claimed in claim 26, further comprising, when the desired communication protocol is not supported, determining whether a download of the desired radio communication protocol is available, and when available, downloading the desired radio communication protocol and programming the radio to communicate according to the desired radio communication protocol.

28. (Previously Presented) A method as claimed in claim 26, further comprising determining whether a physical layer block is currently programmed to operate according to the desired radio communication protocol, and when so, communicating with the remote device according to the desired radio protocol, and when not currently programmed, then programming at least one physical layer block to operate according to the desired radio communication protocol and then communicating with the remote device according to the desired radio communication protocol.

29. (Previously Presented) A method as claimed in claim 26, further comprising programming two or more physical layer blocks to communicate according to two or more radio communication protocols, and coupling the physical layer blocks to a network through a hub.

30. (Currently Amended) An article comprising a storage medium having stored thereon instructions that, when executed by a computer, result in arranging an access point to operate using a desired radio communication protocol by:

transmitting a beacon from a wireless access point to a remote device, the beacon indicating one or more available radio communication protocols;

receiving from a the remote device a reply to a the transmitted beacon at the wireless access point, the reply indicating a desired radio communication protocol;

determining whether the desired radio communication protocol is supported by the wireless access point; and

in the event the desired radio communication protocol is supported, determining whether there is an available physical layer block, and when there is an available physical layer block, programming the physical layer block to communicate according to the desired radio communication protocol, and when a physical layer block is not available, reprogramming an idle physical layer block or one of two or more physical layer blocks that is used less frequently than another of the two or more physical layer blocks to operate according to the desired radio communication protocol.

31. (Previously Presented) An article as claimed in claim 30, wherein the instructions, when executed, further result in arranging the access point to operate using a desired radio communication protocol by, when the desired communication protocol is not supported, determining whether a download of the desired radio communication protocol is available, and when available, downloading the desired radio communication protocol and programming the radio to communicate according to the desired radio communication protocol.

32. (Previously Presented) An article as claimed in claim 30, wherein the instructions, when executed, further result in arranging the access point to operate using a desired radio communication protocol by determining whether a physical layer block is currently programmed to operate according to the desired radio communication protocol, and when so, communicating with the remote device according to the desired radio protocol, and when not currently programmed, then programming at least one physical layer block to operate according to the desired radio communication protocol and then communicating with the remote device according to the desired radio communication protocol.

33. (Previously Presented) An article as claimed in claim 30, wherein the instructions, when executed, further result in arranging the access point to operate using a desired radio communication protocol by, further comprising programming two or more physical layer blocks to communicate according to two or more radio communication protocols, and coupling the physical layer blocks to a network through a hub.

34. (Currently Amended) An apparatus, comprising:

A wireless access point including a network interface circuit having a radio comprising two or more physical layer blocks;
an omnidirectional antenna to couple to said radio; and
a processor to arrange the physical layer block to communicate according to one of at least two or more radio communication protocols, wherein said two or more physical layer blocks have a media access layer block being implemented at least in part by said processor, the processor to determine the availability of the two or more physical layer blocks prior to the arrangement of a particular physical block to a desired communication protocol, and when there is not an available physical layer block, reprogramming an idle one of the two or more physical layer blocks or one of the two or more physical layer blocks that is used less frequently than another of the two or more physical layer blocks to operate according to the desired communication protocol; and
a beacon transceiver to transmit a beacon to a remote device and to receive a reply from the remote device, wherein a beacon transmitted by said beacon transceiver provides an indication of the one or more available radio communication protocols and a received reply from the remote device provides an indication of a desired radio communication protocol.

35. (Previously Presented) An apparatus as claimed in claim 34, said physical layer block including software defined radio logic block being programmable to cause the

physical layer block to be reprogrammed to communicate according to at least one or two or more radio communication protocols.

36. (Previously Presented) An apparatus as claimed in claim 34, further comprising a memory having a database stored thereon, the database including information to configure the physical layer block to communicate according to one of the at least two or more radio communication protocols.

37. (Previously Presented) An apparatus as claimed in claim 34, further comprising a hub, and said radio including at least two or more physical layer blocks and at least one or more media access control blocks to couple to a network through said hub.

38. (Canceled)